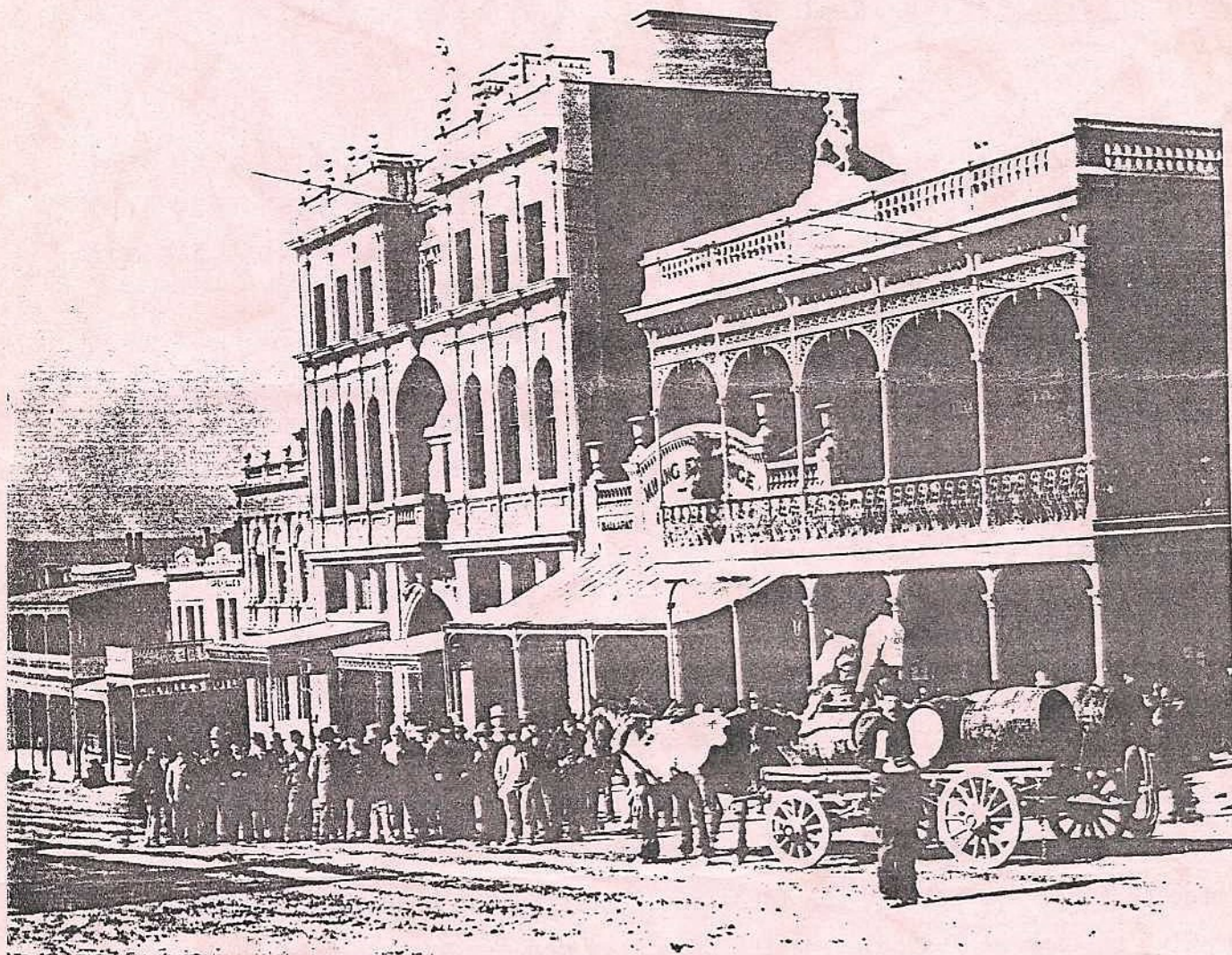




B·A·R·G NEWS

JULY 88



© **Monthly Newsletter of the
Ballarat Amateur Radio Group**

REGISTERED BY AUSTRALIA POST, PUBLICATION NO. VBH3397

BALLARAT AMATEUR RADIO GROUP INCORPORATED.OFFICERS 1988-1989.

EXECUTIVE COMMITTEE

			<u>Home</u>	<u>Business</u>
<u>PRESIDENT.</u>	John Hazledine.	VK3 CFH.	39 1971	39 1035
<u>IMM.PAST PRESIDENT.</u>	Ron Watkins.	VK3 XOA	35 6017	32 1447
<u>VICE PRESIDENT</u>	Gordon Cornell.	VK3 PUW	39 2427	39 1135
<u>SECRETARY.</u>	Jim Wright.	VK3 CFB	32 7563	
<u>TREASURER</u>	Harry Hekkema.	VK3 KGL	35 7563	39 1001
<u>ASST.SECRETARY.</u>	George Fowler.	VK3 DOK	32 6863	39 1954
<u>PUBLICITY OFFICER.</u>	Gordon Cornell.	VK3 PUW	39 2427	39 1135
<u>EDUCATION OFFICER.</u>	Ian McDonald.	VK3 AXH	41 3717	31 1317
<u>NET CO ORDINATOR.</u>	Fred Quick.	VK3 KQF	32 3216	
<u>TECHNICAL OFFICER.</u>	Dick Antoziewicz.	VK3 AEX	32 3273	31 1818
<u>MEMBERS REPRESENTATIVE</u>	Neal Davidson.	VK3 KQQ	35 9612	

#####

OFFICERS AND COMMITTEES.

<u>NEWSLETTER EDITORS.</u>	Bob Terrill.	VK3 BNC	39 5317	39 1001
	Harry Hekkema.	VK3 KGL	35 7563	39 1001
<u>Q.S.L.MANAGER.</u>	Jeff Pigdon.	VK3 PAP	32 7041	31 1211
<u>AWARDS MANAGER.</u>	Maurie Batt.	VK3 XEX	42 2245	
<u>PROPERTY OFFICER.</u>	Dick Antoziewicz.	VK3 AEX	32 3273	31 1818
<u>HAMFEST CONVENER.</u>	Kevin Hughes.	VK3 WN	35 5011	
<u>WICEN COMMITTEE.</u>	Gordon Cornell	VK3 PUW	39 2427	39 1135
	Dick Antoziewicz.	VK3 AEX	32 3273	31 1818
	Geoff Smith.	VK3 ADB	33 2112	
<u>TECHNICAL COMMITTEE.</u>	Ian Robinson.	VK3 BTX	35 8031	
	Maurie Batt.	VK3 XEX	42 2245	
	Phil Seddon.	VK3 AQM	31 5220	
	Murray Felstead	VK3 AAI	41 2234	

#####

B.A.R.G.meets on the LAST FRIDAY in every month except December at the Ballarat Education Centre,Hopetoun St,Ballarat at 7.30pm.

Committee meetings are held at the Education Centre on the wednesday two weeks prior to the Club meeting at 7.30pm.Executive committee members are expected to attend and any club member with business for discussion is welcome.

All correspondence to-The Secretary,BARG Inc,P.O.Box 216E,Ballarat East.3350.

Applications for Awards to-Maurie Batt,RSD,Rokewood Junction.3351.

BARG ANNUAL GENERAL MEETING HELD 24th JUNE 1988.

MEETING OPENED by Vice President John at 7.45pm. John welcomed the 21 members present and visitor Peter VK2 XAM, with a special welcome to Stan SE who is unable to attend very often.

APOLOGIES. VK3 NFZ, PUH, AAI, CAZ, PAP, KIT, DOK, XOA, VU, NIZ, CUH, BNC.

MINUTES of previous meeting as circulated confirmed. PUW/SE.

BUSINESS ARISING. Moved Kevin WN seconded Stan SE that the decision to change Club call sign be further discussed at the July meeting. Motion carried.

CORRESPONDENCE IN WIA, stating that present policy of Vic Council is to pay all power accounts for repeaters.
WIA Western Zone asking for information on proposed portable repeater for which club received \$250 grant.
BLOSS. Thanks for information on Amateur radio supplied.

CORRESPONDENCE OUT WIA Western Zone requesting list of WIA members.
Mrs V. Hugo thanking her for offer of ZL call for Club.

TREASURERS REPORT Harry KGL distributed copies of audited balance sheet showing a balance in General a/c \$153.68. VS&L \$2600.00.

QSL MANAGER Jeff PAP reported no cards in for the month, 542 out.

AWARDS MANAGER Maurie XEX received no applications for awards in June and for the year only 8 Goldrush and 10 DX Widows were applied for.

CLUB NET Fred KQF is still appealing for members to come up on the Net on thursday evenings if only for a short time.

NEWSLETTER Material is still urgently needed to make the Newsletter interesting and informative. Articles do not have to be about radio, and don't forget that you can advertise in it too.

EDUCATION Ian AXH is tutoring 3 aspiring novices.

HAMVENTION Kevin WN is still looking for ideas for a raffle prize. Publicity material about the Hamvention is now going out.

PROPERTY OFFICER Dick AEX circulated a list of Club property.

GENERAL BUSINESS. Ian BTX gave notice of a computer exhibition at the BSM on 16th July. It was decided that a Radio display and packet radio demonstration would be held by the Club.

TOKEN OF THANKS. I was privileged to present on behalf of the Club Life Membership certificates to George DKJ and Stan SE as a token of appreciation for their assistance to the Club and members over many years.

ELECTION OF OFFICERS for 1988-89 was then held and a list of those elected appears on the inside front cover.

#####

73s Jim.CFB.

NEXT CLUB MEETING is on 29th July. Education Centre. 7.30pm.

NEXT COMMITTEE MEETING 10th August. Education Centre. 7.30pm.

#####

PROPERTY OFFICERS REPORT 87-88

The year 87-88 was generally quiet with regard to members usage of club equipment.

However some equip. was used for JOTTA last October and the 3Kva generator was hired out, raising revenue of 30 Dollars.

There was also another generator set (1.2 Kva) donated to the club

Listed below is the inventory of club equip. stored at 303 Talbot St.

ANTENNA"S (beam)	VALUE
20m. 3 element	\$150
15m. 3 element	\$70
10m. 3 element	\$55
6m. 5 element	\$40
2m. 5 element	\$30
ANTENNA"S (VERTICAL)	
2m. quarter wave gnd. plane with coax	\$10
80-10m. trap vert. with all installation hardware and storage box	\$55
ANTENNA"S (WIRE)	
80m. dipole with coax.	\$10
40m. dipole with coax.	\$10
20m. " " "	\$10
MASTS (telescopic)	
QTY. 3 off with all erection bits	\$90
COAXIAL CABLE	
Qty. 5 off 16 metre with connectors	\$45
MOTER GENERATER SET	
1 off 3Kva with 8HP petrol engine	\$475
SUNDRIES	
1 CAFE-BAR coffee mach.	\$250
1 morse trainer set	
10 clipboards	
1 large suitcase	
3 off 20 litre drums (petrol)	
1 beeper for kids	
1 funnel (for petrol not spilling)	
1 tent and frame for generator	
3 tongs BBQ	
1 large toolbox containing pegs, hammer, wire tie tool and handy junk	
Various display materials (public functions)	

I find the inventory details to be correct as listed

DICK ANTOSIEWICZ

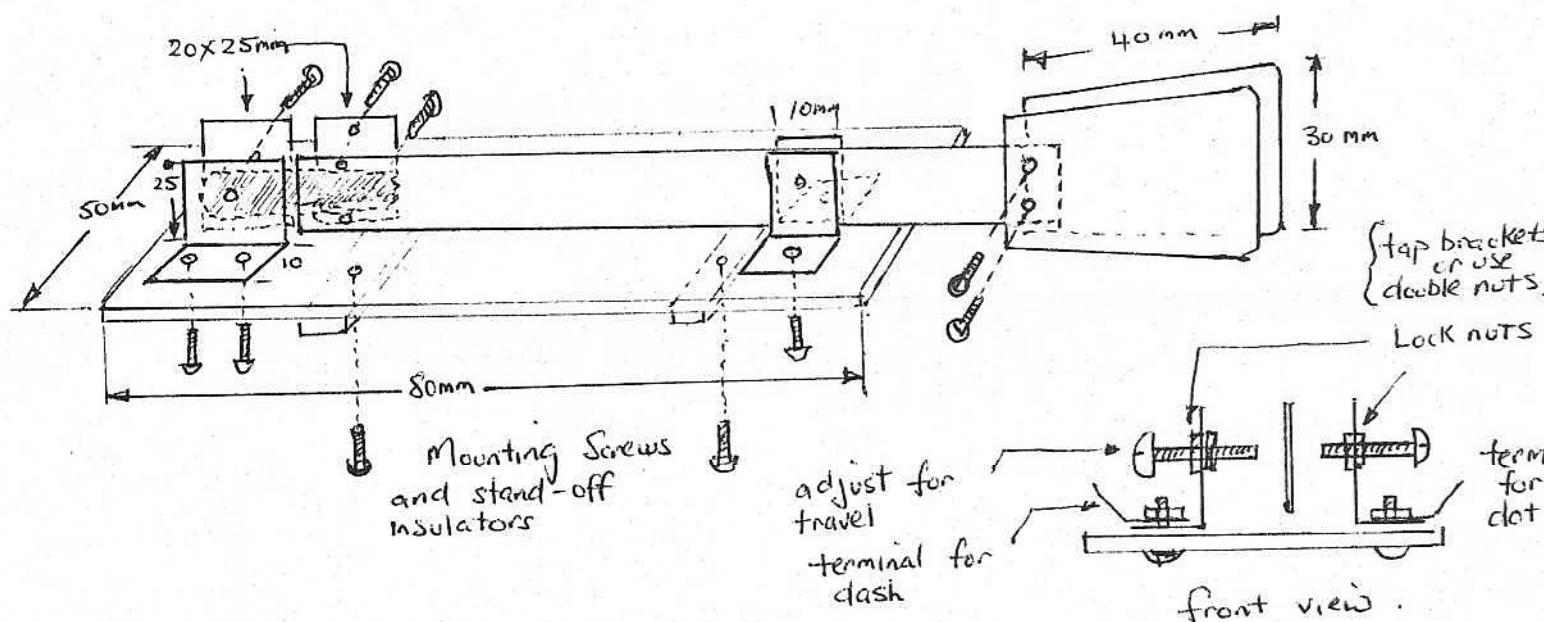
R. Antosiewicz
VK3AEX

ELECTRONIC MORSE KEYS -- PART 3 BY VK3 - AXH

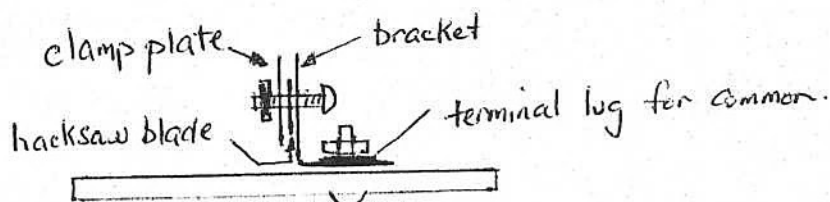
This is the last of the project and is devoted to details of a paddle to make the unit complete. It is only intended to give ideas for the manufacture of a paddle as individuals may wish to develop their own.

Materials:- strip of mild steel, brass or aluminium
200mm x 20mm x 2mm
perspex 100mm x 50mm x 4mm for base plate and
stand off insulators
perspex 40mm x 30mm x 3mm (2 off) for finger
plates.
1/8 whitworth screws and nuts

Bend up brackets as shown in diagram below.



The hacksaw blade is clamped as shown. Make use of hole in blade at one end. A single nut will hold it secure at the anchor point. Two screws and nuts are required to hold the blade to the main paddle arm. (see below)



If you encounter any problems or require further info please give me a call.

B.A.R.G. FINANCIAL STATEMENTS.

JUNE 1938 C.S.B. A/c.

RECEIPTS

Cr. Bal. B/Fwd. June 87 \$ 17.44
Subscriptions 535.00
Sale of Books 13.00
Advert. space in Magazine 24.00
CSL Fees 8.00
Equipment Hire 40.00
Commission 6.00
Donation 2.00
Transferred from Convention 1091.35
Transferred from V.S.&L. A/c 600.00

PAYMENTS

Petty Cash \$ 57.33
Petrol allowance 25.00
Room Hire 134.00
Newsleter Expenses 108.56
Private Box Rental 23.00
B.C.E.C. Membership Fee 30.00
D.O.C. Licence Fees 56.00
Books 62.45
Bank Fees 7.48
Equipment 270.00
Incorporation Fees 25.10
Stationary 132.74
Raffle Prize 93.00
W.I.A. Membership Fees 41.73
X-Mas Break Up 44.32
S.E.C. A/c. 52 Mhz Beacon 30.23
Sundry Expenses 848.67
Transferred To V.S.& L. A/c 153.68
CREDIT BALANCE

\$2341.79

\$2341.79

V.S.& L. A/c.

Balance \$1576.79
Transferred from CSB A/c 848.67
Interest 175.34
\$2600.80

Fees \$ 0.80
Transferred to CSB A/c 600.00
CREDIT BALANCE 2000.00
\$2600.80

AUDITOR'S REPORT.

I have examined the books, vouchers and documents of the BALLARAT AMATEUR RADIO GROUP and I Certify that the above mentioned Financial Statements sets out the true position as at 16th of June, 1938, according to such books and records.

L.G. McColdrick.

20 6 38

As at June 20th 1938.

Awards 1937 - 1938.

Goldrush Award.

B/F 8.24
Awards 24.00
Int .35

Ex CC.01
Postage not included.

Duty \$32.70
Bal 32.78

DX Willows Award.

B/F 10.99
Awards 20.00
Int 1.26

FX .02
Postage not included.

Duty \$32.25
Bal 32.23

Western Districts Award.

B/F 8.01
Awards 16.00
Int 1.12

FX .01
Postage not included.

Duty \$25.13
Bal 25.12

Awards Manager

Maurie Batt. VK3XEX. Secretary. Dave VK3XEX

Checked and found correct

Ed Hardy VK3VW

Date 24.6.38

TO ALL THE THE HOME-BREW ANTENNA FIENDS,

I hope this does the job for you. It seems to work really well on two metres. (F.M.) The elements are fitted into boom. (25 - 30mm square or round boom). The gamma match used is extremely simple, but works fine.

It consists of a 150mm (approx.) length of .25" aluminium tubing spaced about 30mm from the driven element, (spacing not critical). You use a SO 239 socket on a bracket on the boom. Solder a length of insulated wire to the centre pin (taken from some old RG58U co-ax). The only other thing you need is an aluminium bracket between the gamma rod and the driven element solid enough to hold it rigid.

The adjustment is straight forward. I usually lean the beam against the side fence, (wooden). Make sure you have the centre wire longer than you will need. If you start with the rod set at 125mm slide the wire in or out until you get the lowest reading, like wise the bracket. When everything is OK. you can trim the wire so it goes straight from the socket into the rod. It's a good idea to mark the wire or measure it when you have the SWR at the lowest. That's it, if you stick closely to the program I can guarantee the performance. Leave about a 5mm gap between the socket and the gamma rod.

There have been four of these antennae built in Ballarat so far, with very good results. The last two were constructed from old T.V. antennas, one drilled through the boom, and one using the original element clamps above the boom. We haven't done any tests between the last two but listening on air there doesn't appear to be any difference. It's a cheap way for the new 2 metre band users to obtain more coverage at a low or nil cost.

Cheers for now.

Yours in A R.

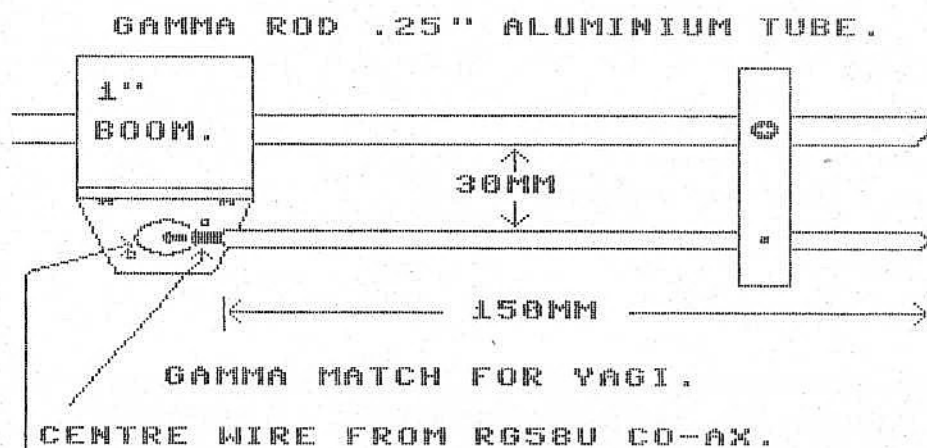
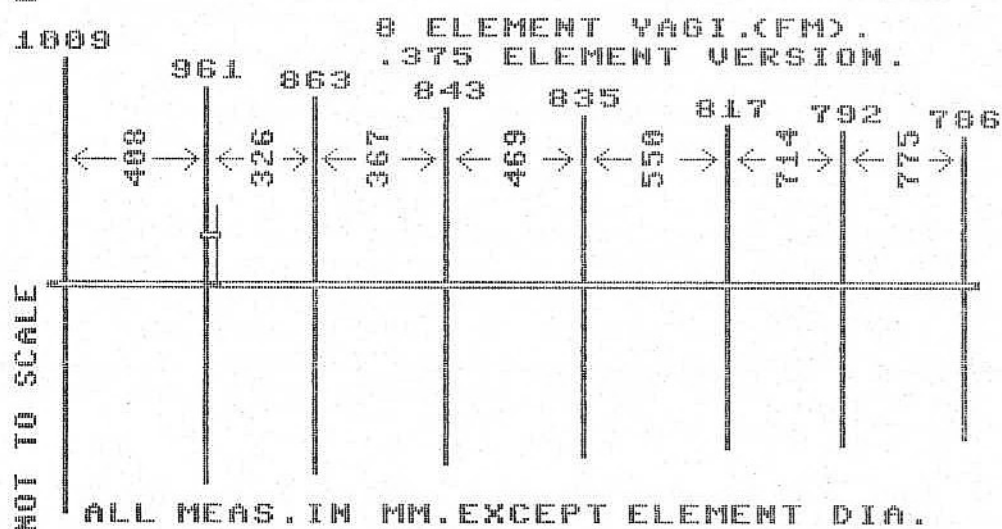
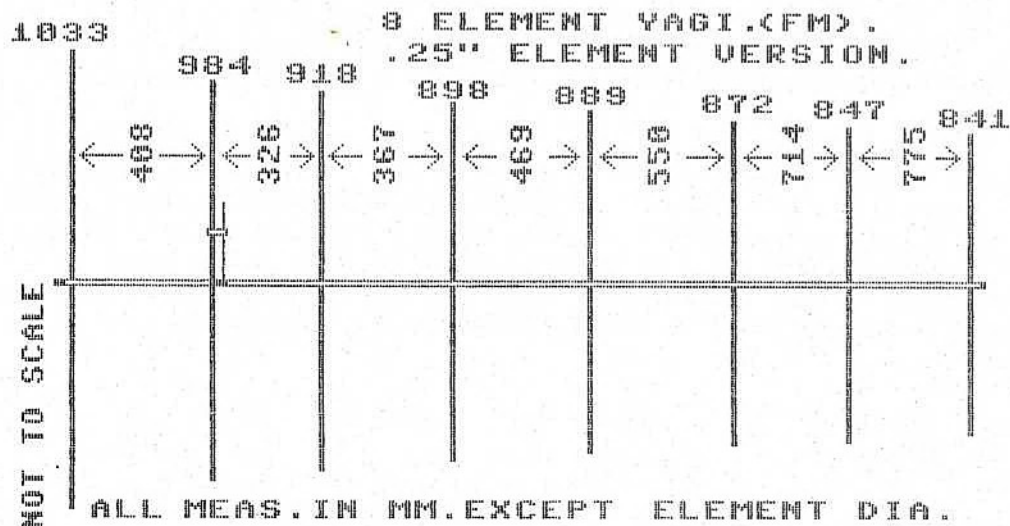
Max. VK3YMW.

P.S. All calcs., artwork and text done on C.64.

FOR SALE , WANTED ETC.

Wanted Can you help ? Maurie VK3XEX is looking for the following tubes, 6KD6, 6CK6.

For Sale. H.F Linear. 813 X 2 Finals Separate Power supply. Well finished. Offers Bob VK3BNC.



SO.239

(C) M.J.W.

I have included dimensions for 1/4" and 3/8" elements. It's interesting to note the difference in length between the two. This is where a lot of hams go astray. And why some antennas work where others don't.

BULLETINS FROM PACKET RADIO - Submitted for general interest. Received via various bulletin boards, finally through Lou VK3DFI, and submitted by Clarry VK3DMK, 26/6/88.

From AX2TTY - ANARTS NEWS BULLETIN.

A013 SATELLITE:

The AMSAT Phase 3C satellite was launched on Wednesday 15th June 1988 at 1119UTC (only 6 minutes late). The launch was letter perfect and all three payload satellites were precisely deposited in the proper orbits.

Telemetry is sent in three forms. The primary mode is digital data sent in a 400 baud biphasic shift keyed stream. This requires a special demodulator. On the hour and half hour, 10wpm CW reports are made. At 15 and 45 minutes after the hour, Baudot messages using 50 baud, about 60wpm, are sent.

During the first week of its life, A013 will undergo several attitude changes and will be spun up to about 45rpm. These manoeuvres will prepare it for kick motor firing in about a week. The transponders will be available for use in approximately 4 to 6 weeks.

BEACON FREQUENCIES ARE:

Mode E GB 145.811mhz EB A145.985mhz

Mode L GB 435.651mhz EB 435.677mhz.

The beacon was heard in Australia on schedule at 1404 UTC.

STOP PRESS: de W1AW 17th June 1988

AMSAT Oscar 13 has now been in orbit two full days and continues in excellent condition. The first kick motor firing could come early next week. Attitude manoeuvres to change the orbitalisation in preparation for kick motor firing have begun. At least 2 and perhaps 3 kick motor firings are planned.

The first burn will put A013 in an intermediate orbit approximately 856 km by 36000 km, inclined 26 degrees. Later burns will place A013 in a 1500 km by 36000 km orbit inclined 67 degrees.

AMSAT will assist government facilities in sorting out the various objects in similar orbits, at least 5 objects from the Ariane launch were being tracked. These included three satellites and sections of rocket.

Other Ariane passengers (Intersat and Panamsat) were due to fire kick motors last night (16th June).

+++++

A further item received and submitted for general information, and maybe some discussion among members.

PACKET RADIO ON THE 14mhz BAND

Bob Crockford VK3CDE

19th June 1988

Introduction.

This document has been written in response to a request that has been received by me from the Wireless Institute executive and is entirely the views and ideas of the author (so far), and is circulated on the VK3 BBS network for comment by other interested parties prior to it being submitted to the Wireless Institute and IARU Region III observers.

Whilst you may not think so, HF BBS operation affects all packet radio operators. News bulletins and personal mail to and from overseas stations are all received and forwarded on HF frequencies. New developments and techniques are generally first learned from stations using the BBS network to distribute such information quickly to all parts of the world.

I invite you to read this document and to make comment and suggest any changes that should be made before I submit this work to the WIA. ((This was at date of writing/reception - 19th June; summarise that any suggestions would have been submitted by the time you receive this))

The Problems.

Essentially, the problem is centered around the 14 megahertz bandplan (gentlemen's agreed bandplan) and the incompatibility of packet radio signals with AMTOR and RTTY signals which currently occupy the allotted narrow band modes portion of the 20 metre band.

(CONTINUED)

10

The problem is further complicated by some overseas BBS stations that operate in the portion 14.100 to 14.125 to avoid interference from other narrow band modes. In order that forwarding could take place and to keep the VK packet radiooperators informed of world packet happenings, the VK packet BBS stations have no alternative but to move to a frequency where international forwarding can be achieved.

The current stance by the WIA in not recognising the need for change, is seriously affecting Packet Radio development in Australia and has also generated ill feeling toward the Institute.

Further to the above, at least one or more Amateur operators chose to make direct representation to DOTC in regard to HF Packet operation and interference on the 20 metre band, thereby bypassing the Institute. Perhaps they had already approached the WIA and considered that a more direct approach would have the desired outcome quickly and then they could continue on their merry way with their heads firmly buried in the sand.

The Solutions.

In order for further packet radio development to take place and for reliable worldwide networks to be established, some serious thought has to be given to introducing an agreed bandplan where packet BBS stations can operate without interference from other modes. The frequency allocation must be sufficient to support a number of separate BBS networks within each country and also provide for international BBS forwarding networks on common frequencies available to all countries.

An allocation of 20khz in the 20 metre band from 14.100 to 14.120 restricted to narrow band packet operation would be all that is required to allow the establishment of world wide and domestic packet BBS networks. Australian operators have already established a BBS forwarding network on 10.149mhz. This network services all of the eastern states and uses only a single frequency on that band.

Some SSB operators will argue that the phone allocation on 20 metres below 14.150 is valuable to them for the reasons that they were here first and that it should not be turned over to a bunch of whiz kids with computers who arrived on the band yesterday and have no right to expect to be able to advance a new mode of operation at the expense of their exclusive part of the spectrum. Why do these operators resist the changes brought about by advances in technology? Perhaps their gear is crystal locked and they are wishing to avoid the cost of new crystals, I honestly cannot see any reason to arguments presented in this matter on behalf of SSB operation below 14.120. I would suspect that these same operators resisted the change from AM to SSB when it was first introduced.

CONCLUSIONS.

A solution has been suggested by the author, I am of the opinion that the only viable solution is to allocate a part of 20 metres for exclusive use for narrow band packet transmissions. This mode cannot co-exist with other forms of narrow band communication and therefore, packet must be allocated an exclusive segment of the band.

Consideration should be given by the WIA to put forward some recommended changes to the agreed bandplan at the IARU conference in October.

About the Author.

I have been operating packet radio for more than two and a half years. Most of my operation has been on VHF. My HF operation began in January 1988 when I first began operating a HF BBS in Melbourne, initially on 10.149mhz and then on 14.107 briefly. The system now operates on 10.149 exclusively and relies on the HF BBS stations that forward on 20 metres to forward mail and bulletins to and from 30 metres. We are in the fortunate position that 30 metres has proven to be a very reliable band for the operation of Packet BBS stations and has allowed a successful network to be established to cover the eastern states of Australia.

R.J. Crockford VK3CDE

=====

Ballarat Amateur Radio Group

VK3BML

MEMBERSHIP FEES 1988-89

MEMBERSHIP FEES BECOME DUE AT THE ANNUAL GENERAL MEETING. PLEASE ASSIST THE CLUB BY PAYING PROMPTLY TO THE TREASURER HARRY HEKKEMA VK3KGL AT CLUB MEETINGS OR BY MAIL TO P.O. BOX 216E, BALLARAT EAST. THE SCALE OF FEES IS AS FOLLOWS:-

FULL MEMBER	\$10.00
FAMILY	\$15.00
STUDENT/PENSIONER	\$ 5.00
LIFE MEMBER	NIL
ASSOCIATE	\$ 7.50

NOTE: ASSOCIATE MEMBERSHIP IS A NEWSLETTER SUBSCRIPTION ONLY.

TO ENABLE ACCURATE RECORDS TO BE KEPT PLEASE COMPLETE THE FOLLOWING INFORMATION AND RETURN IT WITH YOUR SUBSCRIPTION.

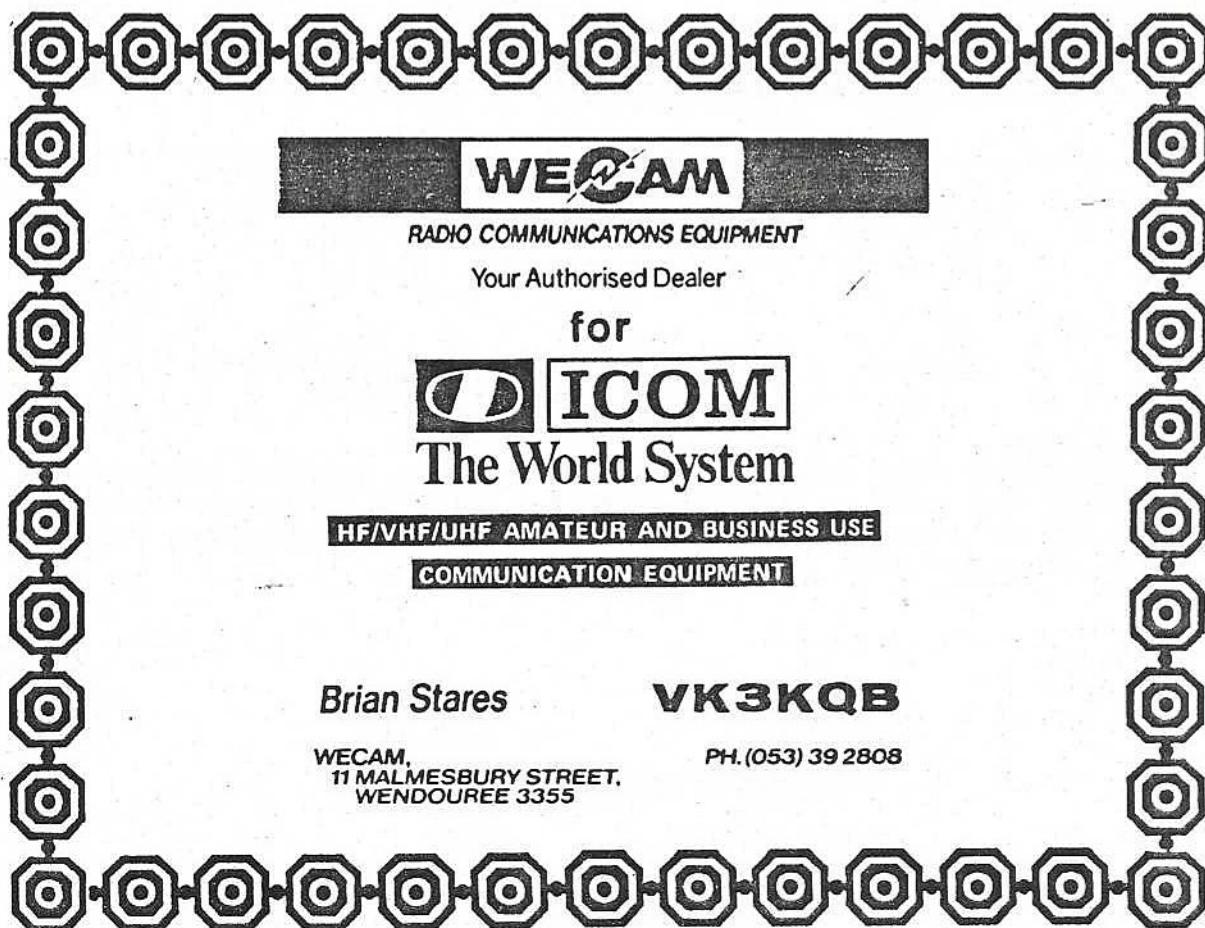
NAME _____ CALL SIGN _____

ADDRESS _____

MEMBERSHIP DESIRED FULL/FAMILY/STUDENT-PENSIONER/ASSOCIATE/LIFE

AMOUNT REMITTED \$ _____ DATE _____

FEES NOW OVER DUE



WECAM
 RADIO COMMUNICATIONS EQUIPMENT
 Your Authorised Dealer
 for
 **ICOM**
 The World System
HF/VHF/UHF AMATEUR AND BUSINESS USE
COMMUNICATION EQUIPMENT

Brian Stares **VK3KQB**
 WECAM,
 11 MALMESBURY STREET,
 WENDOUREE 3355 PH. (053) 39 2808



THE SPOTLIGHT IS ON!

Venture Video

614 SKIPTON ST., SEBASTOPOL

Ph. (053) 35 6933